



TRANSMITTAL FORM <i>(to be used for all correspondence after initial filing)</i>		Application Number	10/687,909
		Filing Date	October 17, 2003
		First Named Inventor	Schneider, Luke V.
		Art Unit	not yet known
		Examiner Name	not yet known
Total Number of Pages in This Submission		Attorney Docket Number	020444-000410US

ENCLOSURES (Check all that apply)		
<input type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment/Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input checked="" type="checkbox"/> Information Disclosure Statement <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Response to Missing Parts/Incomplete Application <input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s)	<input type="checkbox"/> After Allowance Communication to Group <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Other Enclosure(s) <i>(please identify below):</i> Return Postcard, copies of twenty-eight (28) cited references
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Firm or Individual	Townsend and Townsend and Crew LLP Scott L. Ausenhus Reg. No. 42,271
Signature	
Date	01/23/04

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On JAN 23, 2004

TOWNSEND and TOWNSEND and CREW LLP

By: 

Nicole M. Wartell

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Luke V. Schneider

Application No.: 10/687,909

Filed: October 17, 2003

For: METHODS FOR CONDUCTING
METABOLIC ANALYSES

Examiner: Not yet known

Art Unit: Not yet known

INFORMATION DISCLOSURE
STATEMENT UNDER 37 CFR §1.97 and
§1.98

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

The references cited on attached form PTO/SB/08A and PTO/SB/08B are being called to the attention of the Examiner. This application is a continuation of and relies upon U.S. Patent Application No. 09/553,424, filed 04-19-2000 (Attorney Docket No. 020444-000400US) for an earlier effective filing date under 35 U.S.C. §120. In accordance with 37 CFR §1.98(d), copies of those references that have been previously submitted to or cited by the Office in the parent application are not enclosed. In addition, any U.S. patents which have not been previously submitted to or cited by the Office are not enclosed in accordance with the Patent Office waiver issued August 5, 2003 in the Official Gazette, which states as follows:

The Office hereby waives the requirement under 37 CFR §1.98 (a)(2)(i) for submitting a copy of each cited U.S. patent and each U.S. patent application publication for all U.S. national patent applications filed after June 30, 2003 and for all international applications that have entered the national stage under 35 USC §371 after June 30, 2003. See 37 CFR §1.491(b).

In accordance with 37 CFR §1.98(a)(2), copies of foreign patent references and non-patent literature documents, which have not been previously cited, are enclosed. It is respectfully requested that the cited references be expressly considered during the prosecution of this application, and the references be made of record therein and appear among the "references cited" on any patent to issue therefrom.

As provided for by 37 CFR 1.97(g) and (h), no inference should be made that the information and references cited are prior art merely because they are in this statement and no representation is being made that a search has been conducted or that this statement encompasses all the possible relevant information.

Applicant believes that no fee is required for submission of this statement. However, if a fee is required, the Commissioner is authorized to deduct such fee from the undersigned's Deposit Account No. 20-1430. Please deduct any additional fees from, or credit any overpayment to, the above-noted Deposit Account.

Respectfully submitted,



Scott L. Ausenh
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60121984 v1



INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)			Complete if Known		
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Sheet	1	of	5	Attorney Docket Number	020444-000410US

U.S. PATENT DOCUMENTS+					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number Kind Code ² (if known)			
	A1	US-4,647,445	03-03-1987	Lees	
	A2	US-4,656,133	04-07-1987	Goux	
	A3	US-4,690,749	09-01-1987	Van Alstine, et al.	
	A4	US-4,830,010	05-16-1989	Marshall	
	A5	US-4,842,701	06-27-1989	Smith, et al.	
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	A7	US-4,911,808	03-27-1990	Hjerten	
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	A9	US-4,994,165	02-19-1991	Lee, et al.	
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	A11	US-5,015,350	05-14-1991	Wiktorowicz	
	A12	US-5,059,702	10-22-1991	Dooley, et al.	
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	A31	US-5,378,334	01-03-1995	Dadoo, et al.	
	A32	US-5,386,832	02-07-1995	Wagner et al.	
	A33	US-5,391,274	02-21-1995	Shieh, C.H.	
	A34	US-5,413,917	05-09-1995	Malloy et al.	
	A35	US-5,415,747	05-16-1995	Holloway, et al.	
	A36	US-5,429,728	07-04-1995	Gordon, G.B.	
	A37	US-5,439,803	08-08-1995	Ross et al.	
	A38	US-5,441,613	08-15-1995	McCormick, R.M.	
	A39	US-5,447,617	09-05-1995	Shieh, C.H.	
	A40	US-5,462,646	10-31-1995	Shieh, C.H.	

Examiner Signature		Date Considered	
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Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet **2** of **5****Complete if Known**

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		Number Kind Code ² (if known)			
	A41	US-5,505,832	04-09-1996	Laukien, et al.	
	A42	US-5,542,419	08-06-1996	Moulton-Barrett et al.	
	A43	US-5,559,432	02-04-1997	Manz et al.	
	A44	US-5,611,903	03-18-1997	Janssens, et al.	
	A45	US-4,725,343	02-16-1998	Hjerten, et al.	
	A46	US-5,784,154	07-21-1998	Pawliszyn	
	A47	US-5,792,331	08-11-1998	Srinivasan, et al.	
	A48	US-5,837,116	11-17-1998	Harrington et al.	
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	A51	US-5,856,082	01-05-1999	Aebersold, et al.	
	A52	US-5,872,010	02-16-1999	Karger, et al.	
	A53	US-5,916,537	06-29-1999	Kajiwarra et al.	
	A54	US-5,924,995	07-20-1999	Klein et al.	
	A55	US-5,993,627	11-30-1999	Anderson et al.	
	A56	US-6,010,846	01-04-2000	Hellerstein	
	A57	US-6,013,165	01-11-2000	Wiktorowicz et al.	
	A58	US-6,074,542	06-13-2000	Dolnik and Chiari	
	A59	US-6,103,199	08-15-2000	Bjornson et al.	
	A60	US-6,297,099	10-02-2001	Hsich, et al.	
	A61	US-6,372,353	04-16-2002	Karger, et al.	
	A62	US-6,375,818	04-23-2002	Huang, et al.	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³	Number ⁴	Kind Code ⁵ (if known)				
	B1	PCT	WO 95/33989	A1	12-14-1995	Perkin-Elmer Corp.		<input type="checkbox"/>
	B2	PCT	WO 00/11208	A1	03-02-2000	University of Washington		<input type="checkbox"/>

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		First Named Inventor	Schneider, Luke V.		
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Sheet	3	of	5	Attorney Docket Number	020444-000410US

NON PATENT LITERATURE DOCUMENTS				
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.		T ²
	C1	BAI, JIAN et al. "Peptide Mapping by CNBr Degradation on a Nitrocellulose Membrane with Analysis by Matrix-Assisted Laser Desorption/Ionization Mass Spectrometry", <u>Analytical Chemistry</u> , May 15, 1995, Vol. 67, No. 10, pp. 1705-1710.		
	C2	BOCHNER, et al., "Complete Analysis of Cellular Nucleotides by Two-dimensional Thin Layer Chromatography," <u>J. Bio. Chem.</u> 257(16):9759-9769 (1982)		
	C3	CHEN, XIAOHUI et al. "Isotope Edited Product Ion Assignment by α -N Labelling of Peptides with [² H ₃ (50%)]2,4-Dinitrofluorobenzene", <u>J. Am. Soc. Mass Spectrum</u> , (1999), Vol. 10, pp. 448-542.		
	C4	ECKERSKORN, C. et al. "Analysis of Proteins by Direct-Scanning Infrared-MALDI Mass Spectrometry after 2D-PAGE Separation and Electroblothing", <u>Anal. Chem.</u> , (1997), Vol. 69, pp. 2888-2892.		
	C5	GAUSING, K. "Ribosomal Protein in <i>E. coli</i> : Rate of Synthesis and Pool Size at Different Growth Rates," <u>Mol. Gen. Genetics</u> , 129:61-75 (1974)		
	C6	GOODLETT, D.R. et al. "The Use of Mass Spectrometry in Proteomics"; <u>International Business Communications</u> , Pre-conference Symposium Slides, Wednesday, December 1, 1999, pp. 1-11.		
	C7	GYGI, STEVEN P. et al. "Quantitative Analysis of Complex Protein Mixtures Using Isotope-coded Affinity Tags", <u>Nature Biotechnology</u> , October 1999, Vol. 17, pp. 994-999.		
	C8	GYGI, STEVEN P. "Functional Proteomics - Advances in the Development of Drug Leads and Diagnostic Applications Using Integrated Protein-Based Technologies - Slides", <u>International Business Communications</u> , 4th International Conference Slides, December 1-3, 1999, pp. 1-11.		
	C9	HÅKANSSON, KRISTINA, et al; Electron Capture Dissociation and Infrared Multiphoton Dissociation MS/MS of an N-Glycosylated Tryptic Peptide to Yield Complementary Sequence Information; <u>Analytical Chemistry</u> ; September 15, 2001; pp. 4530-4536; Volume 73, No. 18		
	C10	HENRY, KENT D., et al.; Electrospray Ionization with Fourier-Transform Mass Spectrometry. Charge State Assignment from Resolved Isotopic Peaks; <u>Organic Mass Spectrometry</u> ; 1990; pp. 490-492; Volume 25		
	C11	HENZEL, W.J. et al. "Identifying Proteins from Two-dimensional Gels by Molecular Mass Searching of Peptide Fragments in Protein Sequence Databases", <u>Proc. Natl. Acad. Sci. USA</u> , June 1993, Vol. 90, pp. 5011-5015.		
	C12	HOCHSTRASSER, et al. "Methods for Increasing the Resolution of Two-Dimensional Protein Electrophoresis," <u>Anal. Biochem.</u> , 173:424-435 (1988)		
	C13	HUANG, Z-H. et al.; "Protein Sequencing by Matrix-Assisted Laser Desorption Ionization-Postsource Decay-Mass Spectrometry Analysis of the N-Tris(2,4,6-trimethoxyphenyl)phosphine-Acetylated Tryptic Digests", <u>Analytical Biochemistry</u> (1999), Vol. 268, pp. 305-317.		
	C14	JENSEN, OLE et al. "Sequence Patterns Produced by Incomplete Enzymatic Digestion or One-step Edman Degradation of Peptide Mixture as Probes for Protein Database Searches" <u>Electrophoresis</u> (1996) Vol. 15(5); pgs. 938-944.		

Examiner Signature		Date Considered	
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		Application Number	10/687,909
		Filing Date	October 17, 2003
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NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	C15	JENSEN, P.K. et al.; "Probing Proteomes Using Capillary Isoelectric Focusing-Electrospray Ionization Fourier Transform Ion Cyclotron Resonance Mass Spectrometry", <u>Anal. Chem.</u> , June 1, 1999, Vol. 71, No. 11, pp. 2076-2084.	
	C16	KILAR, FERENC: <i>Isoelectric Focusing in Capillaries (Chapter 4)</i> , <u>CRC Handbook of Capillary Electrophoresis: A Practical Approach</u> , (1994), pp. 95-109.	
	C17	KRIWACKI RICHARD W., et al; Probing Protein/Protein Interactions with Mass Spectrometry and Isotopic Labeling: Analysis of the p21/Cdk2 Complex; <i>Journal of the American Chemical Society</i> ; 1996; pp. 5320-5321; Volume 118	
	C18	LI et al. "Improvements on Sample Handling for Rapid Mass Spectrometric Identification of Proteins Resolved by 2D Gel Electrophoresis" <i>Book of Abstracts, 213th ACS National Meeting, San Francisco</i> (April 13-17, 1997)	
	C19	MANN, et al. "Error-Tolerant Identification of Peptides in Sequence Databases by Peptide Sequence Tags" <i>Analytical Chemistry</i> (December 15, 1994) Vol. 66(24), pgs. 4390-4399.	
	C20	MARSHALL, ALAN G., et al; Protein Molecular Mass to 1 Da by ¹³ C, ¹⁵ N Double-Depletion and FT-ICR Mass Spectrometry; <i>Journal of the American Chemical Society</i> ; 1997; pp. 433-434; Volume 119	
	C21	MCCORMICK, RANDY M., <i>Capillary Zone Electrophoresis of Peptides (Chapter 12)</i> , <u>CRC Handbook of Capillary Electrophoresis: A Practical Approach</u> , (1994), pp. 287-323.	
	C22	MIRGORODSKAYA, E., et al; Localization of O-Glycosylation Sites in Peptides by Electron Capture Dissociation in a Fourier Transform Mass Spectrometer; <i>Analytical Chemistry</i> ; October 15, 1999; pp. 4431-4436; Volume 71, No. 20	
	C23	MURPHY, CONSTANCE M. & FENSELAU, CATHERINE; <i>Recognition of the Carboxy-Terminal Peptide in Cyanogen Bromide Digests of Proteins</i> , <u>Anal. Chem.</u> , (1995), Vol. 67, pp. 1644-1645.	
	C24	NATH et al., "Protein Degradation in <i>Escherichia coli</i> ," <i>J. Biol. Chem.</i> , 246(22):6956-6967 (1971)	
	C25	O'FARREL, P.H., "High Resolution Two-Dimensional Electrophoresis of Proteins," <i>J. Biol. Chem.</i> , 250(10):4007-4021 (1975)	
	C26	PALMIERI, RICHARD & NOLAN, JUDITH A. <i>Protein Capillary Electrophoresis: Theoretical and Experimental Considerations for Methods Development (Chapter 13)</i> , <u>Handbook of Capillary Electrophoresis</u> , (1994), pp. 325-368.	
	C27	PATTERSON, SCOTT D. & AEBERSOLD, RUEDI; <i>Mass Spectrometric Approaches for the Identification of Gel-separated Proteins</i> , <u>Electrophoresis</u> , (1995), Vol. 16, pp. 1791-1814.	
	C28	SCHNEIDER, LUKE V.; Presentation Slides from <i>Cambridge Healthtech Institute's Second Annual Genomic Partnering Emerging and Early-Stage Companies</i> , February 27-28, 1999, pp. 1-7.	
	C29	SCHNEIDER, LUKE V. "Metabolic Uncoupling in <i>Escherichia coli</i> During Phosphate-limited Growth," Ph.D. Thesis (Princeton University, Princeton, N.J., A Dissertation presented to the Faculty of Princeton University in Candidacy for the Degree of Doctor of Philosophy 2:LV-CXII (1997)	
Examiner Signature		Date Considered	

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	C30	SHEVCHENKO, A. et al. "Linking Genome and Proteome by Mass Spectrometry: Large-Scale Identification of Yeast Proteins from Two Dimensional Gels", <i>Proc. Natl. Acad. Sci. USA</i> , December 1996, Vol. 93, pp. 14440-14445.		
	C31	SMITH, R.D. et al. <i>Capillary Electrophoresis-Mass Spectrometry (Chapter 8)</i> , <i>CRC Handbook of Capillary Electrophoresis: A Practical Approach</i> , (1994), pp. 185-206.		
	C32	ST. JOHN, et al. "Effects of Starvation for Potassium and Other Inorganic Ions on Protein Degradation and Ribonucleic Acid Synthesis in <i>Escherichia coli</i> ," <i>J. Bacteriol</i> , 143(3):1223-1233 (1980)		
	C33	STENSBALLE, ALLAN, et al; "Electron capture dissociation of singly and multiply phosphorylated peptides"; <i>Rapid Communications in Mass Spectrometry</i> , 2000; pp. 1793-1800; Volume 14		
	C34	STULTS, J.T. et al. "Simplification of High-Energy Collision Spectra of Peptides by Amino-Terminal Derivatization", <i>Anal. Chem.</i> , (1993), Vol. 65, pp. 1703-1708.		
	C35	VEENSTRA, TIMOTHY D., et al; Proteome Analysis Using Selective Incorporation of Isotopically Labeled Amino Acids; <i>Journal of the American Society for Mass Spectrometry</i> , 2000; pp. 78-82;		
	C36	WAGNER, D.S. et al. "Derivatization of Peptides to Enhance Ionization Efficiency and Control Fragmentation During Analysis by Fast Atom Bombardment Tandem Mass Spectrometry", <i>Biological Mass Spectrometry</i> , (1991), Vol. 20, pp. 419-425.		
	C37	WANDERS, B.J. and EVERAERTS, F.M. <i>Isotachopheresis in Capillary Electrophoresis (Chapter 5)</i> , <i>CRC Handbook of Capillary Electrophoresis: A Practical Approach</i> , (1994), pp. 111-127.		
	C38	WILKINS, et al. "Protein Identification with N and C-terminal Sequence Tags in Proteome Projects" <i>J. Mol. Biol.</i> (1998) Vol. 278(3), pgs. 599-608.		
	C39	WILKINS, et al. "Protein Identification with Sequence Tags" <i>Current Biology</i> (1996) Vol. 6(12), pgs. 1543-1544.		
	C40	WILKINS, et al. "Rapid Protein Identification Using N-terminal 'Sequence Tag' and Amino Acid Analysis" <i>Biochemical and Biophysical Research Communications</i> (1996) Vol. 221(3), pgs. 609-613.		
	C41	ZAIA, JOSEPH, <i>Charged Derivatives for Peptide Sequencing Using a Magnetic Sector Instrument</i> , <i>Methods in Molecular Biology</i> , Vol. 61, pp. 28-40.		

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